Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at http://about.jstor.org/participate-jstor/individuals/early-journal-content.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

U. S. DEPARTMENT OF AGRICULTURE.
DIVISION OF VEGETABLE PATHOLOGY.
PERIODICAL BULLETIN. Vol. 6.

THE

JOURNAL OF MYCOLOGY:

DEVOTED ESPECIALLY TO THE STUDY OF FUNGI

IN THEIR RELATION TO PLANT DISEASES.

EDITED BY

THE CHIEF OF DIVISION AND HIS ASSISTANTS.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

WASHINGTON:
GOVERNMENT PRINTING OFFICE.
1891.

CONTENTS.

Number I.

Page.

RECENT INVESTIGATIONS OF SMUT FUNGI AND SMUT DISEASES, by Dr. Oskar Brefeld (translation) 1

ON THE EFFECT OF CERTAIN FUNGICIDES UPON THE VITALITY OF SEEDS, by A. A. Crozier 8

TREATMENT OF BLACK-ROT, BROWN-ROT, DOWNY MILDEW, POWDERY MILDEW, AND ANTHRACNOSE OF THE GRAPE; PEAR SCAB AND LEAF-BLIGHT; QUINCE LEAF-BLIGHT, AND APPLE POWDERY MILDEW, by B. T. Galloway. 11

WHAT TO DO FOR PEACH YELLOWS, by Erwin F. Smith 15

TREATMENT OF MILDEWS UPON PLANTS UNDER GLASS, by S. T. Maynard.. 16

TREATMENT OF CRANBERRY SCALD AND CRANBERRY GALL FUNGUS, by Byron D. Halsted 18

TREATMENT OF APPLE SCAB, by E. S. Goff 19

THE COPPER SALTS AS FUNGICIDES, by F. D. Chester 21

NOTES ON FUNGICIDES AND A NEW SPRAYING PUMP, by B. T. Galloway.. 25

PREVENTION OF SMUT IN OATS AND OTHER CEREALS, by W. A. Kellerman and W. T. Swingle 26

OBSERVATIONS ON THE DEVELOPMENT OF SOME FENESTRATE SPORDIA, by Charles E. Fairman 29

NEW SPECIES OF FUNGI, by J. B. Ellis and B. T. Galloway 31

NEW FUNGI, by J. B. Ellis and B. D. Halsted 33

NEW SPECIES OF LOUISIANA FUNGI, by J. B. Ellis and Rev. A. B. Langlois. 35

REVIEWS OF RECENT LITERATURE 38

Sur quelques types remarquables de champignons entomophytes (A. Giard).—A monograph of British Gastromycetes (George Massee).—Observations on the structure of the Nuclei in Peronospora parasitica, and their behavior during the formation of the Oöspore (Harold W. T. Wager).—Timber and some of its diseases (H. Marshall Ward).—A list of the Kansas species of Peronosporaceæ (W. T. Swingle).

INDEX TO NORTH AMERICAN MYCOLOGICAL LITERATURE, by David G. Fairchild 42

Number II.

ANNOUNCEMENT 45

A NEW HOLLYHOCK DISEASE, by Miss E. A. Southworth 45

DESCRIPTION OF A NEW KNAPSACK SPRAYER, by B. T. Galloway 51

RECENT INVESTIGATIONS OF SMUT FUNGI AND SMUT DISEASES, by Dr. Oskar Brefeld (translation continued) 59

PRELIMINARY NOTES ON A NEW AND DESTRUCTIVE OAT DISEASE, by B. T. Galloway and E. A. Southworth 72

COPPER-SODA AND COPPER-GYPSUM AS REMEDIES FOR GRAPE MILDEW, by J. Nessler (translation) 73
NOTE ON A MINNESOTA SPECIES OF ISARIA AND AN ATTENDANT PACHYBASIUM, by Conway MacMillan 75
A FEW NEW FUNGI, by J. B. Ellis and S. M. Tracy 76
COMBATING THE POTATO BLIGHT, by J. H. Bünzli (translation) 78
MUCRONOPORUS ANDERSONI, by J. B. Ellis and B. M. Everhart 79
INDEX TO NORTH AMERICAN MYCOLOGICAL LITERATURE, by David G. Fairchild 80

Number III.

EXPERIMENTS IN THE TREATMENT OF PLANT DISEASES, PART I: TREATMENT OF BLACK ROT OF GRAPES, by B. T. Galloway and D. G. Fairchild .. 89
DISEASES OF THE GRAPE IN WESTERN NEW YORK, by D. G. Fairchild 95
ANTHRACNOSE OF COTTON, by Miss E. A. Southworth 100
PERENNIAL MYCELIUM OF THE FUNGUS OF BLACKBERRY RUST, by F. C. Newcombe; note by B. T. Galloway 106
FIELD NOTES, by Erwin F. Smith 107
THE RELATIONSHIP OF PUCCINIA AND PHRAGMIDIUM, by Prof. G. Lagerheim 111
NOTES 113
A New Pear Disease, by B. T. Galloway.—Disease of Geranium, by B. T. Galloway.—Additional Observations on Anthracnose of the Hollyhock, by Miss E. A. Southworth.—Leptothyrium perichymeni, Desm., by J. B. Ellis and B. M. Everhart.—A New Ustilago from Florida, by J. B. Ellis and F. W. Anderson.
REVIEWS OF RECENT LITERATURE 117
Preliminary Experiments with Fungicides for Stinking Smut of Wheat (W. A. Kellerman and W. T. Swingle).
NEW SPECIES OF UREDINEÆ AND USTILAGINEÆ, by J. B. Ellis and B. M. Everhart 118
NOTES ON CERTAIN UREDINEÆ, by F. W. Anderson 121
INDEX TO NORTH AMERICAN MYCOLOGICAL LITERATURE, by D. G. Fairchild 128

Number IV.

EXPERIMENTS IN THE TREATMENT OF PLANT DISEASES, PART II: TREATMENT OF PEAR LEAF-BLIGHT AND SCAB IN THE ORCHARD, by B. T. Galloway and D. G. Fairchild 137
THE PEACH ROSETTE, by Erwin F. Smith 143
TUBERCULOSIS OF THE OLIVE, by Newton B. Pierce 148
RECENT INVESTIGATIONS OF SMUT FUNGI AND SMUT DISEASES, by Dr. Oskar Brefeld (translation concluded) 153
RIPE ROT OF GRAPES AND APPLES, by Miss E. A. Southworth 164
ANTHRACNOSE OF COTTON, by Geo. F. Atkinson 173
MYCOLOGICAL NOTES, II, by George Massee 178
INDEX TO NORTH AMERICAN MYCOLOGICAL LITERATURE, by David G. Fairchild 184